

Date: Fri, 20 May 94 04:30:43 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #151
To: Ham-Equip

Ham-Equip Digest Fri, 20 May 94 Volume 94 : Issue 151

Today's Topics:

2m HT amp??
AEA DSP2232 Mailing List
EMI/EMC Technician Job Opening/San Diego (2 msgs)
FORD EXPLORER & LT TRUCKS
HELP FOR TS-440
LOOKING FOR Allied Radio AX-190 DOCUMENTATION!!!
Motorola: Micor & Mocom70
New MFJ DSP Unit
Opinions on Kenwood 22AT
Sell or Swap
Used Equipment
WANTED: Help converting 440Mhz -> 220Mhz
WANTED : MOD FOR ICOM IC-275A/H
Yaesu FT990 mailing list anyone?

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 18 May 1994 13:30:44
From: usc!math.ohio-state.edu!cs.utexas.edu!swrinde!emory!news-
feed-2.peachnet.edu!news-feed-1.peachnet.edu!news.duke.edu!eff!news.kei.com!
ssd.intel.com!chnews!ornews.intel.com!ccm@ihnp4.ucsd.edu
Subject: 2m HT amp??
To: ham-equip@ucsd.edu

In article <93.236.7583.0NFB27B6@woodybbs.com> eric.hodges@woodybbs.com (Eric
Hodges) writes:

>I am having trouble getting into several repeaters around town using my 5w HT.
> I have seen ads for 2m amps (ones that take 1-5 watts in and give 50-90 watts
> out). I was wondering if anyone had experience with these and could suggest
> some pros and cons of going with this method.

Amps do work, but my opinion is that your money is better spent on a good antenna. I have a few VHF amps and after I built a quad antenna, I stopped using them. With amps you need high current (8 - 15 amps) which is not a problem when mobile, but at home it can pose a problem (I find floating gell-cells is the cheapest solution). If you don't have a decent antenna already, the amp isn't going to be that effective. If you do decide to get an amp, with a decent antenna, I would be surprised if you needed more than 30 watts for any repeater work.

Brett Miller N70LQ
Intel Corp.
American Fork, UT

brett_miller@ccm.hf.intel.com

Date: 19 May 94 22:01:03 GMT
From: agate!howland.reston.ans.net!EU.net!Germany.EU.net!Aachen.Germany.EU.net!
rmi.de!Aachen.Germany.EU.net!rmi.de!not-for-mail@ucbvax.berkeley.edu
Subject: AEA DSP2232 Mailing List
To: ham-equip@ucsd.edu

=====
This is the Mailserver at EUnet EUregio POP Aachen
=====

If you are interested in exchanging information on the

AEA DSP 2232 - Digital Signal Processing Multi-Mode Data Controller

you are invited to join our Mailing list (started on May 12, 1994).
Please subscribe by sending a Mail to

dsp2232-request@rmi.de [or dsp2232-request@Aachen.Germany.EU.net]
with the subject: "subscribe" .

If you would like to share your experiences of knowledge on the
unit, write you contributions to

dsp2232@rmi.de [or dsp2232@Aachen.Germany.EU.net].

=====
Automatic weekly mailing
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Date: 19 May 94 15:47:45 GMT
From: sdd.hp.com!nobody@hplabs.hpl.hp.com
Subject: EMI/EMC Technician Job Opening/San Diego
To: ham-equip@ucsd.edu

EMI/EMC Testing Technician
=====

Hewlett-Packard's San Diego Division is looking for a Senior Electronic Technician to help construct, and later operate, an RF semi-anechoic absorber lined chamber (ALC) as part of its Quality Department's Hardware Test Center. This chamber will be used as an R&D tool to enhance our ability to design FAX machines compatible with world-wide commercial regulatory requirements limiting electromagnetic interference (EMI).

Requirements:

- Associates or equivalent degree in Electronics or Physics
- Demonstrable experience with RF connectors/cables, soldering (Through Hole & SMT), electronics assembly, and fundamentals of programming in BASIC or C.
- Demonstrable relevant experience with EMI, EMC, RF circuits & systems, electromagnetic, antennas, or similar topics.
- Verifiable experience with electronic test equipment, setting up and operating computer workstations or personal computers.
- Excellent verbal and written communication skills.

Desirable Experience:

- Good people skills.
- Specific experience with spectrum analyzers, receivers, antennas, transmission lines, or EMC troubleshooting.
- Experience with applied electromagnetics in the VHF or UHF frequency regions.
- Evidence of creative and independent problem solving.
- Previous experience with commercial EMC measurements.
- Familiarity with FCC and European EMC regulations
- Ham radio or FCC commercial radio licenses.
- NARTE certification.

Please send your resume by e-mail, FAX, or U.S. Mail to:

Scott Roleson, MS-60U22
Hewlett-Packard Co.
16399 West Bernardo Drive, M/S 60U22
San Diego, CA 92127
Tel: (619) 592-4809
FAX: (619) 592-4979
Internet: scott%hpsdde@sdd.hp.com

Date: 20 May 94 00:36:59 GMT
From: sdd.hp.com!nobody@hplabs.hpl.hp.com
Subject: EMI/EMC Technician Job Opening/San Diego
To: ham-equip@ucsd.edu

Regarding my recent posting of this job opening to
rec.radio.amateur.equipment, I've been told this sort
of posting is not appropriate for this newsgroup.

I'd like to sincerely apologize if I in any way offended
any readers of this newsgroup. My intention was to
find a good RFI technician, and this groupd seemed like
the sort of place where good tech's might hang out.

I also posted a copy to misc.jobs.offered, but most of
the postings there look to be for computer science folks,
not hardware-oriented RF types. In fact, I very much
wish there was a group devoted to RFI/EMC/EMI, but so
far I haven't seen one.

So, again, sorry if I offended anyone.

-- Scott Roleson
KC7CJ

Date: 19 May 94 15:10:43 GMT
From: sdd.hp.com!col.hp.com!jwc@hplabs.hpl.hp.com
Subject: FORD EXPLORER & LT TRUCKS
To: ham-equip@ucsd.edu

At a meeting held here in Colo. Ford Lt. Truck Service Engineering, took
possession of the RF Noise of fuel pumps.

I know this doesn't help much right now but give their system a few weeks
and check with your local service manager for results.

John, N0KIC

Date: 19 May 1994 02:43:39 GMT
From: tymix.Tymnet.COM!niagara!flanagan@uunet.uu.net
Subject: HELP FOR TS-440
To: ham-equip@ucsd.edu

In article <2r8pdr\$ofi@news.delphi.com> andrewth@news.delphi.com
(ANDREWTHALL@DELPHI.COM) writes:
>I need the pin diagram and numbering for the 13-pin auxillary plug in the
>back of the Kenwood TS-440.

Viewed from the rear panel:

4	3	2	1
8	7	6	5
12	11	10	9
13			

- 1 No connection
- 2 No connection
- 3 Data Output (Output level is fixed regardless of the AF control setting.
300 mV or more at maximum receiving input with 4.7K load)
- 4 Grounding (The shielded wire of the audio output terminal is connected
here)
- 5 No connection
- 6 No connection
- 7 No connection
- 8 Grounding
- 9 MIC mute (Signal input from the MIC jack is muted. Grounding mutes
signal)
- 10 No connection
- 11 Data input (Input terminal for data communication. In SSB, MIC gain
can be controlled by the MIC control. Input voltage: 500 mV or less)
- 12 Grounding (The shielded wire of the audio input is connected here)
- 13 Standby (Grounding transmits)

--
Dick Flanagan, W6OLD
dick@libelle.com
w6old@n6qmy.#nocal.ca.usa.na
CIS:73672,751 GENIE:FLANAGAN

Date: 20 May 94 05:57:10 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!vixen.cso.uiuc.edu!
ruger-13.slip.uiuc.edu!user@ucbvax.berkeley.edu
Subject: LOOKING FOR Allied Radio AX-190 DOCUMENTATION!!!

To: ham-equip@ucsd.edu

Hello all,

I recently bought a boat-anchor that didn't have any documentations. I really need to get inside and repair somethings, and I would stand a much better chance if I had the documentations or the schematics (usually comes with docs).

I appreciate it!

Allen Hall n9rzc@uiuc.edu

Date: 19 May 1994 09:58:13 -0500

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!wupost!bigfoot.wustl.edu!siesta.cs.wustl.edu!not-for-mail@network.ucsd.edu

Subject: Motorola: Micor & Mocom70

To: ham-equip@ucsd.edu

In article <2r1j9m\$ju5@crl2.crl.com>,

James C. Schumann <schumann@crl.com> wrote:

>I have the option of picking up a couple of Micors and a Mocom70 at a
>very good price for the lot. Any manuals, or comments floating around?

>

>--

>

>James Schumann <KE6DMY>

>schumann@crl.com

>

James, I'm in the process of modifying a Micor for the 2 Meter band. I have it working now as rock-bound rig on a local repeater. I found two of these cheap at a police auction. The trick with Micor's is that you have to buy them *really* cheap, so you can spend \$'s modifying them. I managed to get the channel elements donated, and a manual donated. I modified the receiver first, and it sounds great... The trick here is that you have to replace the helical coils in the front end... About \$35 from Motorola. The rest of the mods were not bad, but you have to unsolder the RF cans to get to the parts. The manual shows you what you have to modify to bring the rig down to the 2 meter band.

On the TX side: I was able to get away with (so far) of just modifying the Exciter. This took some time, but can be done. Just use an analyzer to retune it and the TX channel element. You can tune the Power Amplifier to the 2 meter band, but no guarantees. I had to crank down one of the tuning caps to get it in tune. My TX was 146.250, so I know it can tune that low. Also, I found a bandpass and harmonic filter for the 2 meter

band(\$250/pair), but I think you can tune the bandpass that is designed for the 150.8 MHz model down to the 2 meter band. Some instructions are around on how to do this by using a spare one, and drilling holes in the top so you can tune the coils. I've not tried this yet.

One other note: NOT ALL MICORS can be modified to the 2 meter band. The one's I have are the 73 series (90/110 Watt models). I don't think the 60 Watt model can be modified.

This radio is not very cost effective to modify, but then I'm doing this as a project to learn about this, and I'm going to convert it into a repeater to replace our dying repeater here at Washington University.

Hope this helps,
If you have any questions send email.

73 for now,

john d wilson, N0TYZ
Washington University Amateur Radio Club, W0QEY
jdw@cs.wustl.edu

Date: 20 May 94 04:54:21 GMT
From: agate!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
brannick@ucbvax.berkeley.edu
Subject: New MFJ DSP Unit
To: ham-equip@ucsd.edu

Just saw an advertisement for the new MFJ Model 784 DSP Filter; anyone got some hands on knowledge of this one... or is it too soon?...Bill KN6FJ.

Date: Wed, 18 May 1994 15:44:28 GMT
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!cyber2.cyberstore.ca!nntp.cs.ubc.ca!
unixg.ubc.ca!quartz.ucs.ualberta.ca!tribune.usask.ca!sue!news@network.ucsd.edu
Subject: Opinions on Kenwood 22AT
To: ham-equip@ucsd.edu

How does the Kenwood 22AT compare to the Radio Shack and other radios?

Thanks in advance.

Mike Murray
mmurray@leroy.cc.uregina.ca

Date: 19 May 94 21:27:00 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!gatech!swrinde!
elroy.jpl.nasa.gov!ncar!asuvax!pinyon.libre.com!twb!
william.eckle@ucbvax.berkeley.edu
Subject: Sell or Swap
To: ham-equip@ucsd.edu

Hi All:

Am posting this for a friend, if you can't contact him directly,
I can forward a message in this conference, or reply to my E-Mail
address below. Thanks.

--Bill--

Internet address: william.eckle@twb.com

From: Frederick Franz (WA6VHB)

I have for sale or trade two VHF mobile transceivers.

- (#1) Icom-230, PLL, synthesized, 67 channels, 146 to 148 Mhz. This unit covers the bandwidth in 30 khz increments. This is the original band plan for 2 meter repeaters. E.g., 146.76; 146.79; 146.94, etc. The repeater offsets are -600 and +600khz. The radio also operates on any of the simplex frequencies, e.g.146.52; 146.55; 146.58 etc. The power output is 10 W. This unit features an analog type S meter. The radio does not have DTMF or PL (CTCSS), however there is a an accessory connector for 9V. power take-off and audio input. (I have used this for external DTMF and it works fine). The unit also has a jack for external speaker.
Price is \$100.00 OBO. (See swap info below).

- (#2) Icom-280, PLL, synthesized, 559 channels. 143.9-145.995 Mhz in 5 khz steps. 146.01-148.11 Mhz in 15 khz steps. This is a later version than the Icom-230 for an expanded 2 meter band plan. The repeater offsets are -600 and +600 and the radio operates simplex on any of the channels. This radio has a dual power output selection of 10 watts or 1 watt. The frequency display is a 4 digit bright red LED type. This radio also has an analog type S meter, and a jack for an external speaker. Also featured is a 3 channel programmable memory. No DTMF or CTCSS.
Price is \$160.00 OBO. (See swap info below).

Both of the above mobile units come in factory boxes with manuals and accessories: mounting bracket; power cord; extra fuse; and hdwe. These radios are in good condition and I'll even pay the shipping!

I'll trade both of the above radios for a used dual band VHF/UHF radio such as the Alinco DR570T, DR592T or DR600T. (DR570T or DR600T preferable). Or if anyone has dual bander and doesn't want to trade, I'll offer cash. (The amount depending on condition, and if manual and accessories are furnished).

Please contact: Frederick Franz (WA6VHB)
1204 N. Ponderosa Circle
Payson, AZ 85541-3843
Tel.: 602-474-9647

Date: Wed, 18 May 1994 16:19:53 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!newsserver.jvnc.net!erenj.com!
jmmdrakemac1.erenj.com!user@network.ucsd.edu
Subject: Used Equipment
To: ham-equip@ucsd.edu

I have a R390A in excellent condition with meters and fully enclosed \$275 and must be picked up from NJ area. I also have a Kenwood SM-220 in perfect condition for \$275. Please contact by Email ...Thanks

Date: 20 May 94 00:07:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: WANTED: Help converting 440Mhz -> 220Mhz
To: ham-equip@ucsd.edu

I want to build or buy a device to convert 440Mhz down to 220Mhz so I can pick up 220Mhz repeaters and other 220Mhz activity on my scanner or 2m/70cm HT.

Additionally, if I were to connect it to my antenna jack, could I theoretically work 220Mhz repeaters when tuned to the corresponding 440Mhz harmonic?

Thanks for any help anyone can offer.

73,
Scott

=====
| Scott Ehrlich Amateur Radio: wy1z AMPRnet: wy1z@wa1phy.ampr.org |
Internet: wy1z@neu.edu BITnet: wy1z@NUHUB AX.25: wy1z@wa1phy.ma.usa.na

| Maintainer of the Boston Amateur Radio Club hamradio FTP area on |
| oak.oakland.edu - /pub/hamradio |
=====

Date: 20 May 94 09:00:25 GMT
From: ghost.dsi.unimi.it!ghost.dsi.unimi.it!not-for-mail@tcgould.tn.cornell.edu
Subject: WANTED : MOD FOR ICOM IC-275A/H
To: ham-equip@ucsd.edu

Hi everyone.
I'm searching for any mod about my VHF radio ICOM IC-275. I think there'll be no difference between A and H version, specially about expanding the band, that's what I'm mainly searching.
Anyway, any help about any mod'll be very appreciated.

73's de IK2WSC, Paolo (mapelp@ghost.dsi.unimi.it)

PLEASE E-MAIL IF POSSIBLE. TNX.

Date: 20 May 94 06:22:55 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!library.ucla.edu!
csulb.edu!csus.edu!netcom.com!slay@ucbvax.berkeley.edu
Subject: Yaesu FT990 mailing list anyone?
To: ham-equip@ucsd.edu

Rob Lingelbach (rob@xyzzoom.info.com) wrote:
: I've started a mailing list for Yaesu FT990 owners. If you'd like to
: subscribe, send a message to 990-request@xyzzoom.info.com stating your
: wish.

Now, if you would expand that to cover the FT-1000 series, you may have a few more subscribers. What say?

73 de Sandy WA6BXH/7J1ABV - slay@netcom.com

PS: That would be a good forum to discuss issues like the problem of using the Heil Pros-set 4 headset with the FT-1000; there's a problem there due to a weak stereo amp chip for the phones and a possible impedance mismatch. We've been hashing it over on the CONTEST reflector for some time now. ;-)

End of Ham-Equip Digest V94 #151
